




# Material Safety Data Sheet

NFPA	Transport Symbol
	Not regulated

Preparation Date 06-Jun-2008

Revision Date 11-Mar-2008

Revision Number 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Code 1205610  
Product Name BETA NAPHTH-OL  
Synonyms 2-Naphthaleno:  
Formula C10H8O  
CAS Number 135-19-3  
Contact  
ACETO CORPORATION  
One Hollow Lane  
Lake Success, NY 11042-1215  
Phone (516) 627-6000  
Fax (516) 627-6093  
Email: regulatory@aceto.com  
ChemTrec Emergency Telephone 1-800-424-9300  
Numbers 1-703-527-3887

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Harmful by inhalation. Harmful if swallowed. May be harmful in contact with skin. Irritant. Dangerous for the environment.  
Very toxic to aquatic organisms. Sensitivity to light

Appearance White to Brown, Crystalline Powder.

Physical State Solid.

Odor Phenol-like

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Mexico - Grade Slight risk Grade 1

### Potential Health Effects

Principal Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion.

### Acute Effects

Eyes Irritating to eyes. Visual disturbances. Avoid contact with eyes.

<b>Skin</b>	May be harmful by skin contact. Irritating to skin. Avoid contact with skin.
<b>Inhalation</b>	Harmful by inhalation. Irritating to mucous membranes. Irritating to respiratory system.
<b>Ingestion</b>	Harmful if swallowed. May cause irritation of the digestive tract.
<b>Chronic Effects</b>	Abdominal pain, Nausea, Vomiting, Convulsions. Intestinal and peritoneal absorption may lead to severe nephritis, liver injury and acute hemolytic anemia. Depending on intensity of exposure, effects may vary from mild irritation to severe destruction of tissue.
See Section 11 for additional Toxicological information.	
<b>Aggravated Medical Conditions</b>	Not available
<b>Interactions with Other Chemicals</b>	Not available
<b>Potential Environmental Effects</b>	Dangerous for the environment. Very toxic to aquatic organisms. Avoid release to the environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>CAS Number</b>	135-19-3
<b>Formula</b>	C10H8O

#### Hazardous Components

Chemical Name	CAS-No	Weight %
2-Naphthol	135-19-3	60 - 100

### 4. FIRST AID MEASURES

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Consult a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

## 5. FIRE-FIGHTING MEASURES

Flammable Properties	Not available
Suitable Extinguishing Media	Carbon dioxide (CO2), Dry powder, Foam.
Unsuitable Extinguishing Media	Not available
Hazardous Combustion Products	Thermal decomposition or combustion may produce hazardous gases and/or materials.

### Explosion Data

Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health 2	Flammability 1	Instability 0
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## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental Precautions	Local authorities should be advised if significant spillages cannot be contained.
Methods for Containment	Not available
Methods for Cleaning up	Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.
Other Information	Not applicable

## 7. HANDLING AND STORAGE

Handling	Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapour/dust. Avoid contact with skin, eyes and clothing. Avoid repeated exposure.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. May discolor on exposure to light.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Tightly fitting safety goggles
<b>Skin Protection</b>	Protective gloves
<b>Respiratory Protection</b>	In case of insufficient ventilation wear suitable respiratory equipment.

### General Hygiene Considerations

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White, to Brown, Crystalline, Powder
<b>Physical State</b>	Solid
<b>Odor</b>	Phenol-like
<b>pH</b>	Not available
<b>Flash Point</b>	153°C
<b>Method</b>	Closed cup
<b>Autoignition Temperature</b>	550°C
<b>Boiling Point/Range</b>	285 - 286°C
<b>Melting Point/Range</b>	121 - 123°C
<b>Flammability Limits in Air</b>	Lower Not available      Upper Not available
<b>Vapor Pressure</b>	< 0.1 hPa @ 20 °C
<b>Vapor Density</b>	4.97 g/L
<b>Specific Gravity</b>	1.217 g/cm3
<b>Water Solubility</b>	0.6g/L @ 25 °C
<b>Reactivity In Water</b>	Not available
<b>Molecular Weight</b>	144.17

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to Avoid</b>	Heat, flames and sparks. Protect from light. Contact with metal may evolve flammable hydrogen gas
<b>Incompatible Materials</b>	Strong oxidizing agents. Strong bases. Acid chlorides. Acid anhydrides. Antipyrine. Camphor. Ferric salts. Menthol. Phenols. Potassium permanganate. Urethane. Acids
<b>Hazardous Decomposition Products</b>	Carbon monoxide, Carbon dioxide (CO2)
<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Naphthol	1950 mg/kg Ora. LD50 Rat	> 10 g/kg Dermal LD50 Rabbit	2.2 mg/L Inhalation LC50 Rat 4 h > 770 mg/m <sup>3</sup> Inhalation LC50 Rat 4 h

### Chronic Toxicity

**Carcinogenicity** There are no known carcinogenic chemicals in this product

**Irritation** Skin, rabbit: 500 mg 24h MLD; Eye, rabbit: 100 mg MOD

**Corrosivity** Not available

**Sensitization** Not available

**Neurological Effects** Not available

**Mutagenic Effects** Not available

**Reproductive Effects** Not available

**Developmental Effects** Not available

**Target Organ Effects** Eyes.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Dangerous for the environment. Very toxic to aquatic organisms. Avoid release to the environment

#### 2-Naphthol

##### Freshwater Algae Data

= 18.8 mg/L EC50 *Scenedesmus capricornutum* 4 h

##### Microtox Data

= 0.22 mg/L EC50 *Photobacterium phosphoreum* 5 min

= 0.24 mg/L EC50 *Photobacterium phosphoreum* 15 min

= 0.27 mg/L EC50 *Photobacterium phosphoreum* 30 min

##### Water Flea Data

= 13.8 mg/L EC50 water flea 48 h Static

= 3.54 mg/L EC50 *Daphnia magna* 48 h

### Persistence / Degradability

Not available

Bioaccumulation / Accumulation	Not available
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Mobility in Soil	Not available
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2 Naphthol

log Pow = 2.84

**13. DISPOSAL CONSIDERATIONS**

Waste Disposal Method	Contact waste disposal services. Dispose of in accordance with local regulations.
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Contaminated Packaging	Dispose of in accordance with local regulations. Empty containers should be taken for local recycling, recovery or waste disposal.
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US EPA Waste Number	Not available
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**14. TRANSPORT INFORMATION**

DOT	Not regulated
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TDG	Not regulated
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MEX	Not regulated
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ICAO	Not regulated
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IATA	Not regulated
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IMDG/IMO	Not regulated
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RID	Not regulated
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ADR	Not regulated
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ADN	Not regulated
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**15. REGULATORY INFORMATION**International Inventories

U.S.A. (TSCA)	Complies
Canada (DSL)	Complies
EU (ELINCS)	Does not Comply
EU (EINECS)	Complies
Japan (ENCS)	Complies
China	Complies

**1205810 - BETA NAPHTHOL**

Korea (KECL)	Complies			
Philippines (PICCS)	Complies			
Australia (AICS)	Complies			
Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (E) (NCS)
2-Naphthol	Present	Present	703-167-7	-

Chemical Name	Japan (JNCS)	China	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
2-Naphthol	4-305 4-306	Present	07-3-36	Present	Present

**USA**
**Federal Regulations**
**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

Chemical Name	CAS-No	VOCs
2-Naphthol	135-19-3	Present

**State Regulations**
**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State Right-to-Know**
**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

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Prepared By	Environmental Health and Safety, Regulatory Affairs
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Revision Summary	Not available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

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